88-317722/45

A96 B04

TSUC/ 23.03.87 *J6 3232-841-A

TSUCHIDA H 23.03.87-JP-068256 (28.09.88) A61k-09/10 B01j-13/02

C08k-09/10 C08l-101 Reforming polymerised liposomes encapsulating bioactive materials contg. polymerisable phospholipid so that no denaturation occurs

C88 140174

A method of forming liposomes from encapsulating material contg. polymerizable phospholipid is claimed. They are jad/ merized and freeze dried to powders, the powders dispersed in a water medium and the liposomes reformed. The reformed liposomes may be further polymerized to stabilize them.

USE/ADVANTAGE

The method is used to form stable liposomes enerpsulating bioactive materials, which can be encapsulated without denaturing when the liposomes are reformed.

The freeze dried powders can be stored over long periods

1,2 bis(2,4 octadecadienoyl) sn glycero 3 phosphecholine and azobisisobutyronitrile were mixed in mol. ratio of 100:1. The mixt, was dispersed in water and irradiated with ultra

A(4-A, 7-B, 9-A, 12-S9, 12-W5, 12-W111) B(4-B1B, 4-B4A1. 5-BIP. 12-MIIC) 4

sonic waves to form liposomes having 20 nm radius, which were aged to give 50 nm radius liposomes.

The liposomes were heated to 60°C to polymerize them, and freeze dried below 20°C. The resultant powders were dispersed in water and irradiated by ultrasonic waves to a appearant bearing School of the Heal

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